

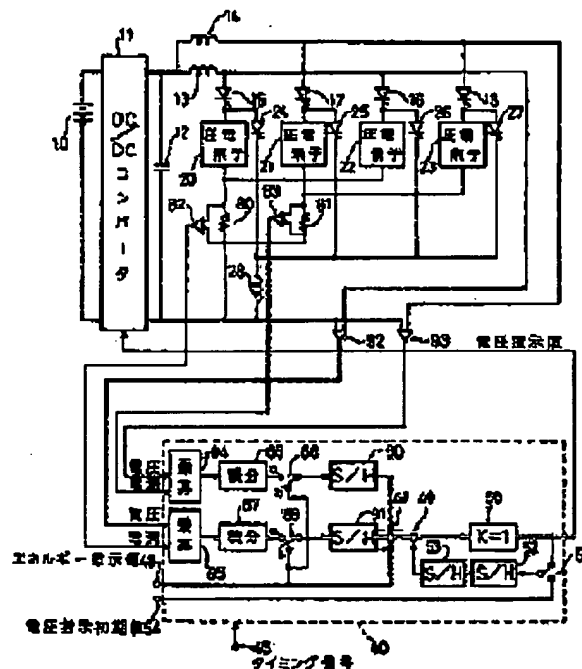
## PIEZOELECTRIC-ELEMENT DRIVING CIRCUIT

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Applicant: TOYOTA MOTOR CORP  
Classification:  
- International: H01L41/09; F02M51/00; H02N2/00  
- european:  
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### Abstract of JP6177449

**PURPOSE:**To obtain the accurate values of the expanding and contracting amounts of a piezoelectric element.

**CONSTITUTION:**A current detecting means detects the value of the current flowing through a charging and discharging path when piezoelectric elements 20-23 are charged and discharged. A voltage detecting means detects the voltage values across both ends of the piezoelectric elements or the voltage value in conformity with the voltage across the above described both ends. In a control means 40, the current value detected with the above described current detecting means and the voltage value detected with the voltage detecting means are multiplied, and a voltage instruction value, by which the energy value obtained by the time integration of the multiplied values agrees with a target value, is generated. Thus, the power supply voltage of the above described piezoelectric elements is controlled.



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